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## **CLAIMS**

1. A process for manufacturing a PTFE filament of the type comprising steps of extrusion, and, subsequently, stretching, heating and cutting PTFE, characterized by the following steps prior to extrusion:

providing a recipient having rigid side walls;

arranging a first mixture containing PTFE and a filler, and a second mixture containing PTFE, inside the recipient, side by side and aligned with the side walls; and

pressing the first and second mixtures in a direction parallel to the side walls to form a billet in which the first and second mixtures have different coefficients of friction.

- 2. The process according to claim 1 is characterized by the fact that, in the arranging step, the first and the second mixtures are inserted respectively into two portions of the recipient separated by a barrier, and, subsequently, the barrier is removed, enabling a part of the first mixture to contact a part of the second, and be arranged side by side and aligned with the side walls of the recipient.
- 3. The process according to claim 1 or 2 is characterized by the fact that, in the step of arranging, the first mixture includes a pigment and the second mixture includes another pigment.
- 4. A PTFE filament obtained by the process defined in claim 1 is characterized by comprising one side with a filler, so that this side has a different coefficient of friction in relation to the other side.
- 5. The PTFE filament in claim 4 is characterized by the fact that the first and the second mixtures have the same shrink properties.
  - 6. The PTFE filament in claim 4 or 5 is characterized by further comprising a lubricant.
  - 7. The PTFE filament in any one of claims 4 to 6 is characterized by the fact that each side has a different color.
- 8. The PTFE filament in any one of claims 4 to 7 is characterized by the fact that the filler comprises at least one of silica, alumina, mica and calcium carbonate.

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- 9. The PTFE filament according to any one of claims 4 to 8 is characterized by the fact that the quantity of filler in the respective side ranges from 1 to 25%.
- 10. The PTFE filament according to any one of claims 4 to 9 is characterized by the fact that the quantity of pigment in at least one side ranges from 0.05% to 10%.
  - 11. The PTFE filament according to any one of claims 4 to 10 is characterized by the fact that said coefficient of friction in the side with filler ranges from 0.08 to 0.20 and the other side is less than 0.08.
- 12. The PTFE filament according to any one of claims 4 to 11, characterized by comprising a width ranging from 0.5 to 3.0 mm, a thickness ranging from 20 to 400 μm, a density ranging from 0.7 to 2.2 g/cm3, a tensile strength ranging from 100 to 1100 MPa and a tenacity ranging from 2.0 to 6.0 cN/dtex.

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